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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
- 09/446,958	08/07/2000	PIERRE M. COMBELLES	9320.92ÛSWO	3201
23552	7590 03/28/2003			
MERCHANT & GOULD PC			EXAMINER	
P.O. BOX 29 MINNEAPO	03 LIS, MN 55402-0903		LIU, SHŲWANG	
			ART UNIT	PAPER NUMBER
			2634	9
			DATE MAILED: 03/28/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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-10-		Application No.	Applicant(s)			
•		09/446,958	COMBELLES ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Shuwang Liu	2634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR A MAILING DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory e to reply within the set or extended period for reply will, by the ply received by the Office later than three months after the dipatent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may tion. s, a reply within the statutory minimum of period will apply and will expire SIX (6) My statute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1)🛛	Responsive to communication(s) filed o	n <u>08/07/2000 (the preliminary</u>	amendment) .			
2a) <u></u>	This action is FINAL . 2b)	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 16-19</u> is/are rejected.						
7)🖂	7)⊠ Claim(s) <u>11-15</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objectio					
11) 🔲 🗆	he proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[☑ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority docu	uments have been received.				
	2. Certified copies of the priority docu	ments have been received in	Application No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 ation Disclosure Statement(s) (PTO-1449) Paper N	48) 5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			

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DETAILED ACTION

Information Disclosure Statement

1. Two references listed in the form (PTO-1449) of the information disclosure statement filed on February 29, 2000, has not been considered because there are no date or/and author for the references.

Specification

2. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Objections

- 3. Claim 1-8, 11-15 and 19 are objected to because
- (1) the elements of the method claim are not recited as steps. The elements of a method claim are steps, which should usually be verbal phrases introduced by a gerund or verbal noun (the "-ing" form of a verb). For example, on line 11, claim 1, "the obtaining" should be -obtaining- -, and on line 21, claim 1, "transmission" should be - transmitting- -;
- (2) in line 1, claim 1, "Method for the modulation of" should be - A method for modulating- -. Corresponding changes should be made for other claims;
- (3) insert -and- between the last two method steps or means for all of the claims;
 - (4) give a definition for "L";

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- (5) "characterized in that" is suggested changing to "comprising";
- (6) in line 2, claim 4, "the generation" should be -a generation- -;
- (7) on line 1, claims 9, "Device for the modulation of" should be -A device for modulating- -;
 - (8) delete "the" after "means for" for all of apparatus claims;
 - (9) in lines 11 and 14, insert -;- at end of the sentence;
 - (10) in line 6, claim 10, insert -storage means including before "2LM-M";
- (11) in line 1, claim 11, "Method for the demodulation of" should be - A method for demodulating- -. Corresponding changes should be made for other claims;
 - (12) in line 17, claim 11, change "2I-1" to -2L-1- -; and
 - (13) in line 3, insert -output- after "M complex '.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1- 8 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the weighting coefficients" in line 14 and "said storage locations" in line 19. There is insufficient antecedent basis for this limitation in

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the claim. For example, it is unclear whether "said storage locations" refers to "predetermined storage locations" in line 16 or "2LM storage locations" in line 17.

Claim 9 recites the limitation "said temporary storage locations" in line 16. There is insufficient antecedent basis for this limitation in the claim since it is not introduced before.

Claim 16 recites the limitation "said memorized samples" in line 14. There is insufficient antecedent basis for this limitation in the claim since it is not introduced before.

Claim 19 recites the limitation "said 2M complex coefficients" in line 7, "the weighted values" in line 11, and "said memory locations" in line 13. There is insufficient antecedent basis for these limitations in the claim. For example, it is unclear whether "said memory locations" refers to "predetermined memory locations" in line 11 or "2ML memory locations" in line 12.

Allowable Subject Matter

- 6. Claims 11-15 would be allowable if rewritten to overcome the objections, set forth in this Office action.
- 7. Claims 1-10 and 16-19 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph and the objections, set forth in this Office action.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is (703) 308-9556.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin, can be reached at (703) 305-4714.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Shuwang Liu Primary Examiner

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